

CLAIMS

What is claimed is:

- 5           1. A portable workbench comprising:  
a structural body having a polygonal cross-section having at least three  
sides; and  
a platform disposed on the structural body and contacting the structural  
body on at least two sides.
- 10       52. The work bench of Claim 1, further comprising a plurality of legs  
supporting the structural body.
63. The work bench of Claim 1, wherein the structural body is tubular.
74. The work bench of Claim 1, wherein the structural body has a  
trapezoidal cross-section.
- 15       85. The work bench of Claim 1, wherein the platform further comprises a  
top surface, upon which a power tool can be installed thereon.
96. The work bench of Claim 1, wherein the platform further comprises  
side surfaces that frictionally contact the structural body.
107. The work bench of Claim 6, wherein the side surfaces end in respective  
20 flat foot portions.

8. The work bench of Claim 6, wherein platform comprises an override  
mechanism that lifts the platform so that the side surfaces do not frictionally  
contact the structural body.

9. The work bench of Claim 1, wherein the platform comprises an override mechanism that lifts the platform so that the platform does not frictionally contact the structural body.

10. The work bench of Claim 1, wherein the platform comprises a carriage and means for moving said carriage downward against the structural body.

11. The work bench of Claim 10, wherein the platform further comprises rollers disposed on said carriage.

12. The work bench of Claim 1, wherein the platform comprises a pinion disposed within said platform meshing with a rack disposed on said structural body.

13. The work bench of Claim 1, further comprising an extension that can be installed at an end of said structural body.

14. The work bench of Claim 1, further comprising a support mechanism installed at an end of said structural body for supporting an elongated work piece.

15. The work bench of Claim 1, wherein the structural body has a square cross-section.

16. The work bench of Claim 1, wherein the platform comprises an override mechanism for allowing horizontal movement of the platform along the structural body.

17. The work bench of Claim 1 further comprising a locking mechanism disposed on one of the structural body and the platform, said locking mechanism

comprising a cam movable between a first position locking the platform on the structural body and a second position unlocking the platform.

*a* 14 <sup>2-24</sup> 18. The work bench of Claim 17, wherein the <sup>first element</sup> platform is movable along the structural body.

*a* 5 15 <sup>2-24</sup> 19. The work bench of Claim 17, wherein the cam is pivotable about an axis.

16 <sup>15</sup> 20. The work bench of Claim 19, wherein the axis is substantially parallel to longitudinal axis of the structural body.

*a* 10 17 <sup>2-24</sup> 21. The work bench of Claim 17, wherein the <sup>first element</sup> platform comprises a hook portion contacting the structural body.

*a* 18 <sup>2-24</sup> 22. The work bench of Claim 17, wherein the locking mechanism further comprises a plate disposed between the cam and the other of the structural body and the <sup>first element</sup> platform.

*a* 15 19 <sup>18</sup> 23. The work bench of Claim 22, wherein the locking mechanism further comprises a spring for biasing the plate towards the cam.

24. The work bench of Claim 1, further comprising a handle connected to the cam for moving the cam between first and second positions.

*add a 17*